## **Amendments to the Claims**

The following listing of claims replaces all prior versions of the claims and all prior listings of the claims in the present application.

1-14. (canceled)

15. (new) A pneumatic tyre for a vehicle wheel, comprising:

a toroidal carcass;

a tread band;

rim,

a belt structure; and

at least one reinforcing layer associated with the carcass;

wherein the carcass comprises at least one carcass ply having a substantially continuous right-section profile,

wherein the carcass has a central crown portion and two axially opposite sidewalls, wherein each sidewall terminates with a bead for mounting the tyre on a corresponding

wherein each bead comprises at least one reinforcing core,

wherein the tread band is disposed crownwise, coaxially extending around the carcass, wherein the tread band comprises a raised pattern for rolling contact with the ground, wherein the belt structure is coaxially interposed between the carcass and the tread band, wherein the tyre has a size ratio f/H less than 0.2:1, and

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wherein the at least one reinforcing layer is disposed radially external to a point of maximum axial width of the carcass and axially external to the belt structure.

- 16. (new) The tyre of claim 15, wherein ends of the at least one carcass ply extend in a radially external direction not beyond half a radial height of respective reinforcing cores.
- 17. (new) The tyre of claim 15, wherein ends of the at least one carcass ply do not turn up around respective reinforcing cores.
- 18. (new) The tyre of claim 15, wherein the at least one reinforcing layer comprises a substrate.
  - 19. (new) The tyre of claim 18, wherein the substrate comprises an elastomer material.
  - 20. (new) The tyre of claim 19, wherein the elastomer material is reinforced with fibers.
- 21. (new) The tyre of claim 15, wherein the at least one reinforcing layer comprises a plurality of cords.
- 22. (new) The tyre of claim 15, wherein the at least one reinforcing layer comprises a plurality of high-elongation-type cords.

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- 23. (new) The tyre of claim 21, wherein the at least one reinforcing layer comprises a substrate of a varying thickness depending on radial height, and wherein the cords are spiraled at constant pitch.
- 24. (new) The tyre of claim 21, wherein the at least one reinforcing layer comprises a substrate of substantially constant thickness, and

wherein the cords are spiraled at varying pitch depending on radial height.

- 25. (new) The tyre of claim 15, wherein the at least one reinforcing layer comprises an elastomer material reinforced with fibers.
  - 26. (new) The tyre of claim 25, wherein the fibers comprise aramidic fibers.
  - 27. (new) The tyre of claim 15, wherein the at least one reinforcing core comprises: a bead ring;

wherein the bead ring comprises a set of coils of metal wire disposed radially superposed on each other and in axial side-by-side relationship.

28. (new) The tyre of claim 15, wherein an extension of the at least one carcass ply between the beads comprises a neutral profile with a continuous curvature devoid of inflection points.

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- 29. (new) The tyre of claim 15, wherein an extension of the at least one carcass ply between the beads comprises a neutral profile passing within fields delimiting an assembly of right-section areas of respective bead rings.
- 30. (new) The tyre of claim 15, wherein an extension of the at least one carcass ply between the beads comprises a neutral profile passing through a center of gravity of respective bead rings.